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## IN THE CLAIMS:

1. (Currently Amended) A protective composite sleeve material for a microwave reaction vessel, said sleeve material consisting essentially of:

a chemically inert outer layer;

a microwave-transparent circumferentially wound cylindrical layer of contiguous yarns fixed with a first polymer layer on the outer surface of said wound layer; and

a pressure-resistant inner layer on the opposite surface of said wound layer from said first polymer layer, said inner layer consisting essentially of a chemically-inert pressure-resistant structural polymer;

wherein said outer and inner layers are formed of tetrafluoroethylene polymer.

- 2 4. (Cancelled)
- 5. (Currently Amended) A composite sleeve material according to Claim 4 Claim 1 wherein said first structural polymer comprises a polyimide resin.
  - 6. (Cancelled)
- 7. (Currently Amended) A composite sleeve material according to Claim 4 A protective composite sleeve material for a microwave reaction vessel, said sleeve material consisting essentially of:

a chemically inert outer layer;

a microwave-transparent circumferentially wound cylindrical layer of contiguous yarns fixed with a first polymer layer on the outer surface of said wound layer;

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a pressure-resistant inner layer on the opposite surface of said wound layer from said first polymer layer, said inner layer consisting essentially of a chemically-inert pressure-resistant structural polymer; and

and further comprising at least one additional textile layer and one additional structural polymer layer between said first structural polymer layer and said inert outer layer.

8. (Original) A composite sleeve material according to Claim 7 wherein said additional textile layer is selected from the group consisting of wound filaments, wound yarns, woven fabric, braided fabric, nonwoven fabric, and knitted fabric.

9 - 12. (Cancelled)

- 13. (Currently Amended) A composite sleeve according to Claim 19 38 further comprising a plurality of pairs of adjacent concentric layers of structural polymer and textiles between said inner and outer first and inner polymeric layers.
- 14. (Original) A composite sleeve according to Claim 13 wherein said textile layers in said pairs are selected from the group consisting of woven fabrics, braided fabrics, nonwoven fabrics, and knitted fabrics.
- 15. (Original) A composite sleeve according to Claim 13 wherein said textile layers in said pairs comprise a winding selected from the group consisting of filaments and yarns.

16 - 35. (Cancelled)

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- 36. (Previously Added) A protective composite sleeve material according to Claim 1 wherein said yarns are selected from the group consisting of filament and spun yarns.
  - 37. (Cancelled)
- 38. (Allowed) A protective composite sleeve and vessel assembly for microwave assisted chemistry, said assembly consisting essentially of:
- a sleeve formed of a microwave-transparent circumferentially wound cylindrical layer of contiguous yarns fixed with a first polymer layer on one surface of said wound layer, and a chemically-inert pressure-resistant structural polymeric inner layer on the opposite surface of said wound layer from said first polymer layer; and
- a microwave-transparent pressure resistant reaction cylinder surrounded by said sleeve.

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